

Application No. 09/384,108
Amendment dated July 8, 2005
Response to Official Action of February 8, 2005

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A communication device for facilitating communication between a wired network and wireless devices, the wireless devices including a first mobile wireless device and a second mobile wireless device, the first wireless device being configured for communication using a first communication protocol, the second wireless device being configured for communication using with a second communication protocol different from the first communication protocol, the communication device comprising:

a wired network interface configured for communication with the wired network;

a first radio configured for communication with the first mobile wireless device [using] via the first communication protocol;

a second radio configured for communication with the second mobile wireless device [using] via the second communication protocol; and

a data controller in communication with the network interface and the first and second radios for controlling data traffic between the wired network and the wireless devices, the data controller being configured to:

(i) [to] receive from the wired network data intended for reception by one of the mobile wireless devices,

(ii) [to] select one of the radios, the one radio being configured for direct communication with the one mobile wireless device; and

(iii) [to route] transmit all the received data directly to the [radio associated with] the one mobile wireless device via the selected radio;

wherein the received data includes wireless protocol information that indicates a wireless protocol used for communicating the data to the one mobile wireless device, and the data controller is configured to select the one radio in accordance with the communication protocol associated with the received data.

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Claim 2 (previously presented): The communication device according to claim 1, wherein

the wireless devices are each assigned a respective address, and the received data includes the address of the respective mobile wireless device; and

the data controller is configured to route the received data to the respective radio in accordance with the address included in the received data.

Claim 3 (cancelled)

Claim 4 (cancelled)

Claim 5 (currently amended): The communication device as claimed in claim [4] 2, wherein the first radio has a first radio coverage area, and the second radio has a second radio coverage area, and a size of the second radio coverage area is different than a size of the first radio coverage area.

Claim 6 (previously presented): The communication device as claimed in claim 5, wherein one of the communications protocols is in accordance with the IEEE 802.11 specification.

Claims 7 - 12 (cancelled)

Claim 13 (currently amended): A method for facilitating communication between a wired network and wireless devices, the wireless devices including a first mobile wireless device and a second mobile wireless device, the first wireless device being configured with a first communication protocol, the second wireless device being configured with a second communication protocol different from the first communication protocol, the method comprising the steps of:

at a communication device, receiving data from the wired network for reception by one of the mobile wireless devices, the communication device including a first radio configured [with the first communication protocol] for

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communication with the first mobile wireless device via the first communication protocol, and a second radio configured [with the second communication protocol] for communication with the second mobile wireless device via the second communication protocol; and

controlling data traffic between the wired network and the wireless devices, the data controlling step comprising the steps of:

- (i) receiving from the wired network data intended for reception by one of the mobile wireless devices;
- (ii) selecting one of the radios, the one radio being configured for direct communication with the one mobile wireless device; and
- (iii) [routing] transmitting all the received data directly to [the radio associated with] the one mobile wireless device via the selected radio; wherein the received data includes wireless protocol information that indicates a wireless protocol used for communicating the data to the one mobile wireless device, and the selecting step comprising select the one radio in accordance with the communication protocol associated with the received data.

Claim 14 (previously presented): The method as claimed in claim 13 wherein:
the wireless devices are assigned a respective address, and the received data includes the address of the respective mobile wireless device; and
the step of controlling comprises routing the received data to the respective radio in accordance with the address included in the received data.

Claim 15 (cancelled)

Claim 16 (cancelled)

Claim 17 (currently amended): The method as claimed in claim [16] 14 wherein the first radio has a first radio coverage area, and the second radio has a second radio coverage area, and a size of the second radio coverage area is different than a size of the first radio coverage area.

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Claims 18 – 20 (cancelled)